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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,624	02/19/2002	Yoko Kumagai	62807-040	9550
20277	7590	09/07/2005	EXAMINER	
MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			DOAN, TRANG T	
			ART UNIT	PAPER NUMBER
			2131	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/076,624

**Applicant(s)**

KUMAGAI ET AL.

**Examiner**

Trang Doan

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on 06 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☒ Certified copies of the priority documents have been received in Application No. 2001-356851.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                                    |                                                                             |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____                                                |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____                                                                        | 6) <input type="checkbox"/> Other: _____                                    |

1. Claims 1-10 have been examined.

***Priority***

2. The application is filed on 02/19/2002 but claims the benefit of foreign priority has been made and acknowledged.
3. Therefore, the effective filing date for the subject matter defined in the pending claims in this application is 11/22/2001 on the benefit of foreign priority date.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Shinako et al. EP 1130844 (hereinafter Shinako).

**As regarding to claim 1**, Shinako teaches:

a) sending a certificate issuing request including a registration contents of a public key certificate and an information content guaranteed by the registration authority, to the issuing authority in a registration authority (see column 3, lines 46-58 and column 4, lines 1-6);

b) and generating a public key certificate including the registration contents described in the certificate issuing request, the information guaranteed by the registration authority, issuing contents issued by the issuing authority, and a signature to the issuing contents in the issuing authority (see column 3, lines 46-58 and column 4, lines 1-6).

**As regarding to claim 2**, Shinako teaches an identifier is predetermined so as to specify information to be described in the public key certificate (see column 13, lines 34-39); and the registration authority includes the signature to the information guaranteed by the registration authority and the identifier as the information guaranteed by the registration authority (see column 13, lines 34-44).

**As regarding to claim 3**, Shinako teaches the registration authority applies a hash function to the information guaranteed by the registration authority so as to obtain a hash value and generates a signature for this hash value, so that the hash value and the signature are included in the information guaranteed by the registration authority (see column 19, lines 31-38, column 20, lines 21-28 and 34-58, and column 21, lines 1-24).

**As regarding to claim 4**, Shinako teaches a verifying person verifies the signature of the issuing authority and the signature of the registration authority attached to the entire public key certificate (see column 27, lines 42-57); and confirms the registration contents signed by the registration authority and the issuing contents signed by the issuing authority (see column 27, lines 42-57).

**As regarding to claim 5**, Shinako teaches using the identifier to fetch from the public key certificate, information signed by the registration authority (see column 13, lines 34-39); obtaining a hash value of the fetched information (see column 19, lines 39-52); decoding the registration authority signature contained in the information guaranteed by the registration authority, by using a public key of the registration authority (see column 20, lines 34- 58 and column 21, lines 1-24); and checking whether the hash value is identical to the decoded value, thereby verifying the information to be guaranteed by the registration authority (see column 20, lines 34- 58 and column 21, lines 1-24).

**As regarding to claim 6**, Shinako teaches obtaining a hash value of information described in the public key certificate (see column 19, lines 39-52); and comparing the hash value contained in the information guaranteed by the registration authority to the hash value obtained (see column 20, lines 34- 58 and column 21, lines 1-24); thereby performing identification of the information to be guaranteed by the registration authority and verifying the identified information (see column 20, lines 34- 58 and column 21, lines 1-24).

**As regarding to claim 7**, Shinako teaches constructing and verifying a path from the certificate authority trusted by a verifying person, up to the public key certificate (see column 30, lines 46-58 and column 31, lines 1-8); verifying the registration authority signature described in the public key certificate using the public key of the registration authority (see column 31, lines 9-32); and constructing and verifying a path from the

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certificate authority trusted by the verifying person up to the public key certificate (see column 30, lines 46-58 and column 31, lines 1-44).

**As regarding to claim 8**, Shinako teaches the path from the certificate authority up to the public key certificate of the registration authority is performed by that according to the registration authority name described on the public key certificate, the verifying person fetches the public key certificate of the registration authority from a public key certificate database of the issuing authority (see column 31, lines 9-32).

**As regarding to claim 9**, Shinako teaches the path from the certificate authority up to the public key certificate of the registration authority is performed by fetching the public key certificate of the registration authority described in an extended region of the public key certificate to be verified (see column 31, lines 9-44).

**As regarding to claim 10**, Shinako teaches a registration authority sends a certificate invalidation request to an issuing authority of its public key certificate; and the issuing authority receives the certificate invalidation request and invalidates the public key certificate of the registration authority, thereby invalidating the public key certificate which has been registered by the registration authority (see column 31, lines 20-44).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang Doan whose telephone number is (571) 272-0740. The examiner can normally be reached on Monday-Friday.


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Trang Doan  
Examiner  
Art Unit 2131

T.D.  
09/01/2005

  
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